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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,799	02/03/2004	Jang-Hyoun Youm	1572.1181	9254

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EXAMINER

IP, SHIK LUEN PAUL

ART UNIT	PAPER NUMBER
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2837

DATE MAILED: 05/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/769,799

Applicant(s)

YOUM, JANG-HYOUN

Examiner

Paul Ip

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 2/3/2004 in compliances with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-17 rejected under 35 U.S.C. 102(b) as being anticipated by Takagi et al (6,311,801).

With respect to claims 1, 2, 5, 13, 14, 16, and 17, Takagi et al show in figure 1 a power source 29, an auxiliary power source means 31, and a brake releasing means 30. Takagi et al show in figure 4 a high voltage +H, a low voltage +L, a switching unit 33, and a controller 34 for controlling the switching unit 33. A voltage-boost control circuit 33b provides boosted voltage +L to a higher voltage to a brake coil 14 of a motor. Since the voltage-boost control circuit boosted the +L voltage to charge capacitor 33f with the induced lower voltage from the inductor 33d, the function of Takagi et al is the

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same as the low voltage connection to the inductor as recited in the claims. Since Takagi et al disclose at column 8 lines 24-32 the DC power source 29 may be common to a power source of a low voltage that is used for an electronic circuit for a computer control or the like. It is inherent that the computer voltage can be 12V, 6V, 5V, or 3.3V, it can be 5V as recited in the claim.

With respect to claims 3, 4, and 6, Takagi et al show in figure 4 an inductor 33d, a diode 33e, and a condenser 33f for providing the functions as recited in the claims respectively.

With respect to claims 5 and 7-11, Takagi et al show in figure 4 that the transistor 34b and the resistors 34a and 34c are AND gate equivalent circuit as recited in the claims.

With respect to claims 12 and 15, Takagi et al show in figure 6 a prior art motor control system comprising a motor control circuit for a motor 2. It is inherent that the motor control circuit includes an inverter for controlling the motor 2.

Citation of Pertinent References

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patents to King (6,331,365), De Doncker et al (5,373,195), and King et al (5,710,699) disclose regenerative braking systems for motors comprising an inductor, a condenser, and a power supply for the inductor and the condenser.

The patents to Masberg et al (6,281,646 or 6,177,734) and Peticolas (6,093,975) disclose condenser induced power supply systems for controlling motors.

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The patents to Kolomeitsev et al (6,853,159), Makaran (2001/0000293), and Makaran (6,630,805) disclose snubber regenerative systems for motors comprising an inductor, a condenser, and a power supply.

Communication Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Ip whose telephone number is (571)-272-1941.

The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin, can be reached on (571)-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Paul Ip
Primary Examiner
AU 2837